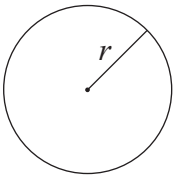
English Version

Utah Basic Skills Competency Test
Mathematics Reference Sheet

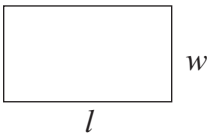
Use the information below as needed to answer questions on the Mathematics subtest.

Circle



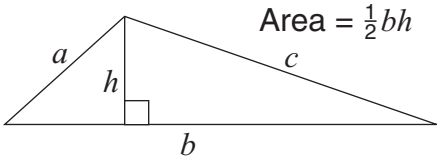
Area = πr^2
Circumference = $2\pi r$

Rectangle



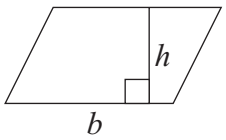
Area = lw
Perimeter = $2l + 2w$

Triangle



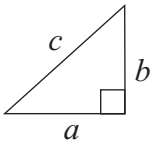
Perimeter = $a + b + c$
Area = $\frac{1}{2}bh$

Parallelogram



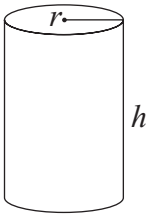
Area = bh

Pythagorean Theorem



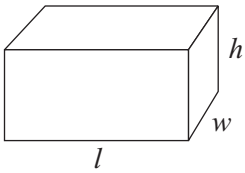
$a^2 + b^2 = c^2$

Cylinder



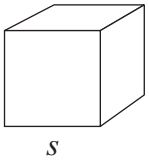
Volume = $\pi r^2 h$
Surface area = $2\pi r^2 + 2\pi rh$

Rectangular Prism



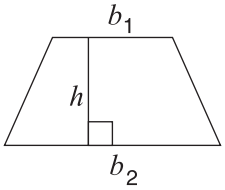
Volume = lwh
Surface area = $2wl + 2lh + 2wh$

Cube



Volume = s^3
Surface area = $6s^2$

Trapezoid



Area = $\frac{1}{2}h(b_1 + b_2)$

Definitions

MEAN: in a collection of data, the sum of all the data divided by the number of data

MEDIAN: the middle number or average of the two middle numbers in a collection of data when the data are arranged in order

RANGE: the difference between the greatest and the least numbers in a collection of data

DISTANCE TRAVELED: distance = rate × time

PI: π is approximately 3.14